

**BCC** **3** COLOR  
TELEVISION  
CAMERA

**AMPEX**





# Big Camera Quality and Rugged Versatility in an Economical, Compact Package

# BCC 3

Picture the ideal medium-priced camera in your studio. A camera that's rugged and compact, yet features three 1" Plumbicon\* tubes; a camera that displays quality design, both aesthetically and electronically; a camera that highlights maintenance accessibility and rock solid construction; a camera with excellent geometry, registration, and signal-to-noise ratio; a camera with a host of "big camera" features: one that fulfills the need for top quality performance at a reasonable price.

Picture these advantages in your studio, and you'll discover there is only one camera in its price range that can offer them all—the BCC-3.



The BCC-3 camera control unit, with close up view of the controls.





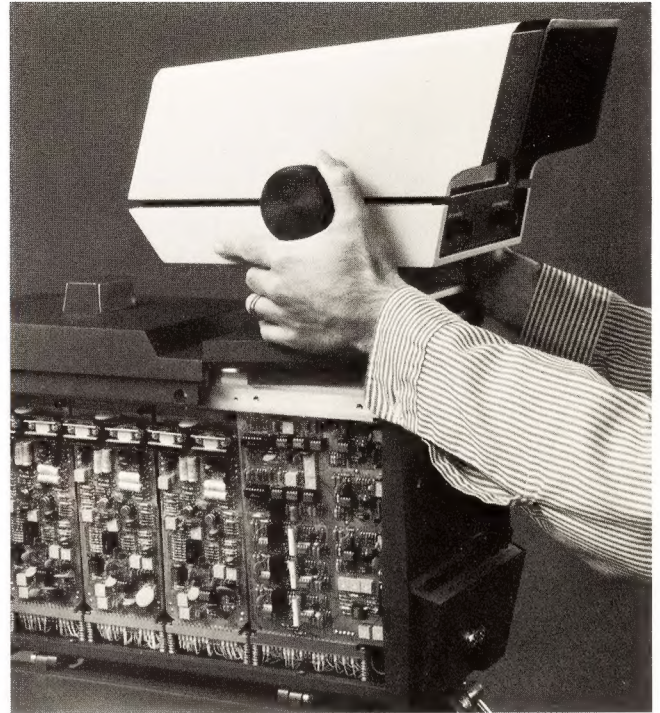
# The Ideal Combination

## QUALITY

The BCC-3 highlights economy, long lasting construction, time and labor saving features, broadcast quality electronics, and an adaptability to a wide variety of uses, both in the studio and on location.

It utilizes three 1" Plumbicon tubes (including an extended red), and printed circuit yokes.

A variety of lens options is available. Because of its unique optical system, lag is reduced by some 50 percent. All optical elements are mounted on a stable, one-piece optical bench. The optical compartment is protected against dust, light and moisture. Yokes and preamplifiers are fully shielded against RF pickup and other magnetic disturbances.

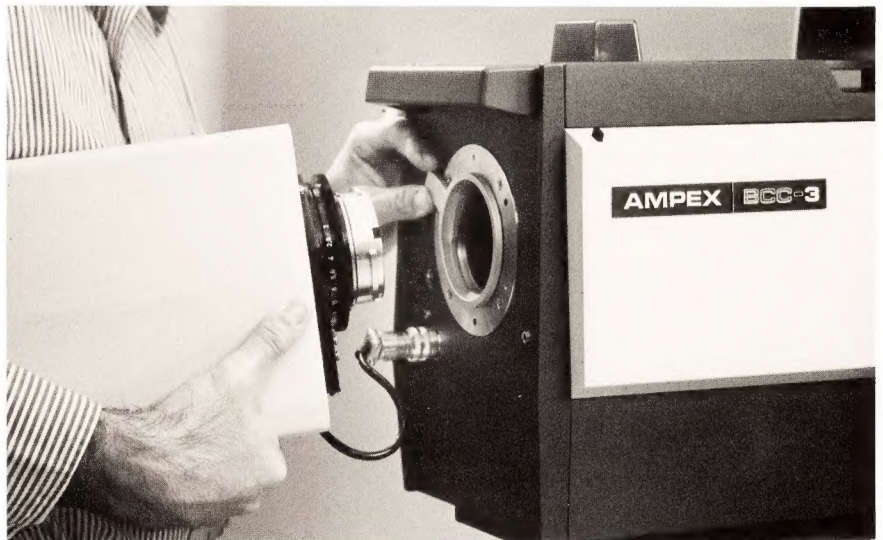


Viewfinder is easily removed.

## VERSATILITY

Because the BCC-3 is rugged, lightweight and features a tough, cast aluminum camera head case, you can take it out of the studio and ship it with confidence that it will perform with consistent quality at its destination, whether it be inside another studio or at a remote location.

It features a small diameter camera cable which can be equalized to 1000 feet. Timing is accomplished with an optional automatic pulse delay accessory. Adjustable masking insures a very precise colorimetry match with other cameras.



The lens mounts and disconnects quickly.

## ACCESSIBILITY

Because the BCC-3 is a newly designed camera it offers the best in maintenance accessibility. Its camera control unit features plug-in printed circuit cards, and maintenance adjustments which are conveniently located on the edge of the cards. All operational controls are on the front of the camera control unit and local control unit. The viewfinder can be easily removed in a matter of seconds, and the lens features a quick-disconnect mount for convenient lens changing.

## ADDITIONAL CONVENIENCE FEATURES

A unique video level indicator is provided to give the operator a visual indication of signal level. This allows the camera operator to adjust the iris at the camera head during setup.

The viewfinder is capable of operating remotely from the camera head and rotates 90° for added convenience during setup and maintenance. It tilts 35°. A video crispener switch provides easy focusing under adverse lighting conditions. A return video feed is standard on the BCC-3.





## FEATURES:

- Excellent Registration and Geometry
- Superb Signal-to-Noise Ratio
- Rugged Cast Aluminum Case
- 600-Line Limiting Resolution
- Convenient Maintenance and Setup
- Tilttable, Rotable Viewfinder
- Built-in Iris Servo and Video Level Indicator
- Two- or Four-wire Intercom System
- Versatile Camera Control Unit with:
  - 2-line vertical and horizontal enhancer  
coring and combing
  - Unique luminance black stretch control  
for high contrast picture control capability
  - Shading correction
  - Plug-in PWAs
  - Picture and waveform monitors
  - Optional joystick remote control.



# BCC3 COLOR TELEVISION CAMERA

## SPECIFICATIONS\*

### Power

100–250V rms, 50–60 Hz

### Scans

EIA . . . . . 525/60 field/s  
CCIR . . . . . 625/50 field/s

### Color Standards

NTSC, PAL-1/B, PAL-M, or SECAM

### Inputs

EIA/CCIR composite sync, blanking, vertical drive, horizontal drive, sub carrier, 7.8 KHz pulse (PAL only).

### Outputs

Composite video 1V pk-pk 75Ω NTSC or PAL

### Registration Accuracy

Zone 1 (circle equal to 0.8 picture height) 0.1%  
Zone 2 (circle equal to picture width) 0.2%  
Zone 3 (elsewhere) 0.4%

### Geometry

Zone 1 less than ±0.5%  
Elsewhere less than ±1% (excluding zoom lens distortions).

### Sensitivity/Signal-to-Noise

A 50 dB (unweighted) signal-to-noise ratio when the camera is delivering a 0.7 volt white signal will be achieved under the following conditions:

3200°K; 50 f/c incident; iris at f/2.8; contours ON, bandwidth limited to 4.2 MHz, viewing 60% reflectance Munsell white, unity gain.

OR—under the above conditions, but with 15 f/c incident light and +12 dB gain, the camera chain shall deliver 1.0 volt composite or 0.7 volt noncomposite output with a minimum of 38 dB Signal-to-Noise.

\* Subject to change without notice.

### Environmental

Temperature range (complete system) . . . . . –15° to +50°C.

### Stability

The camera will meet all requirements of the specifications within 15 minutes of applying power. From the standby mode tracking or white and black level shall be within ±1%, after 3 minutes of operation. A usable picture shall be available 10 to 15 seconds from standby mode.

### Mechanical

1. Camera head (with viewfinder and Schneider 10:1 zoom lens and controls: length—36" (91.44 cm), width—11" (27.94 cm), height—20" (50.8 cm), weight—70 lbs. (31.75 kg).
2. Camera control unit and setup panel complete, and configured for 19" rack mounting: width—19" (48.26 cm), height—7" (17.78 cm), depth—18" (45.72 cm), weight—45 lbs. (20.41 kg).
3. Local control unit (configured for rack mounting): width—19" (48.26 cm), height—3½" (8.89 cm), depth—3" (7.62 cm), weight—5 lbs. (2.27 kg).



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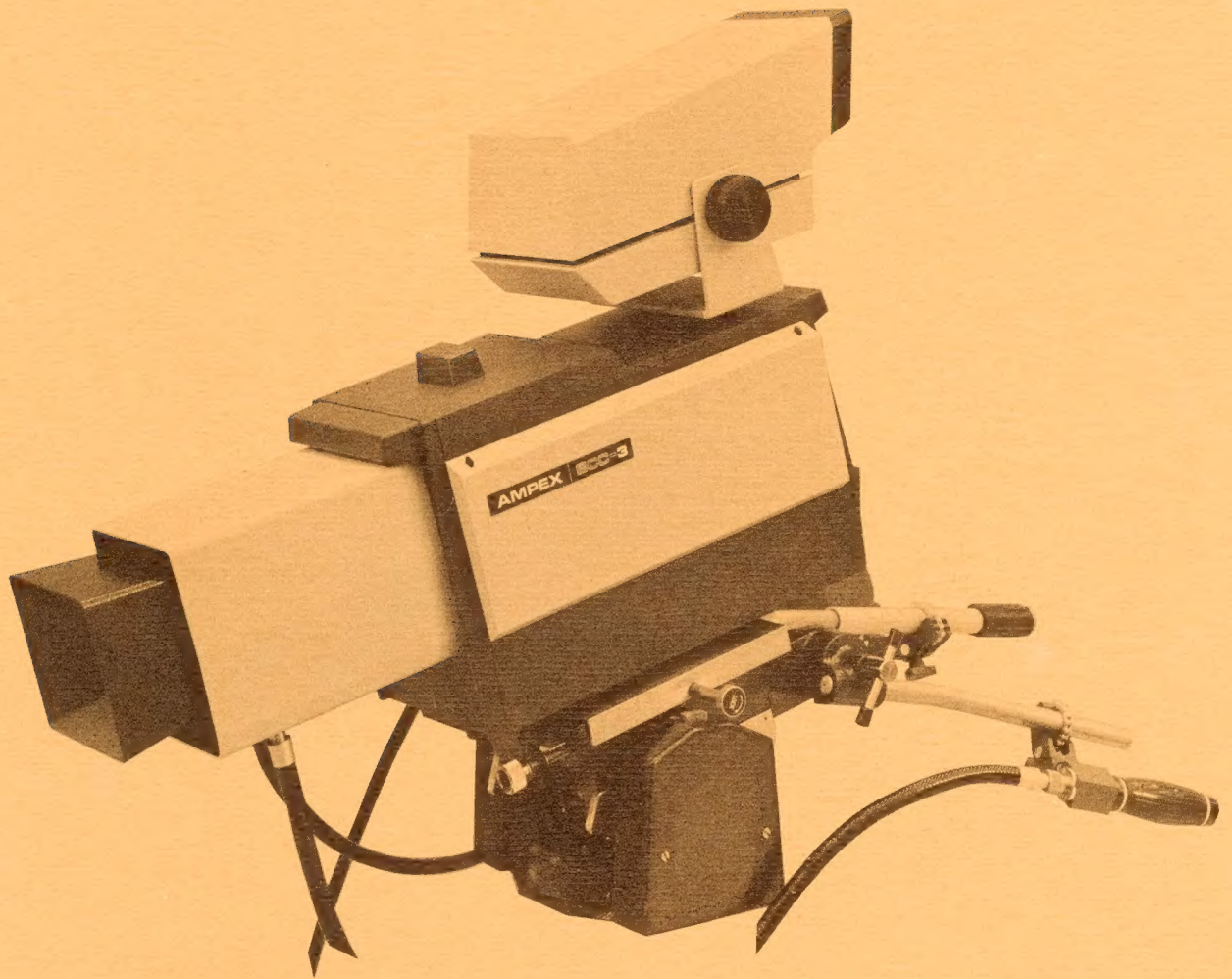
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**AMPEX**

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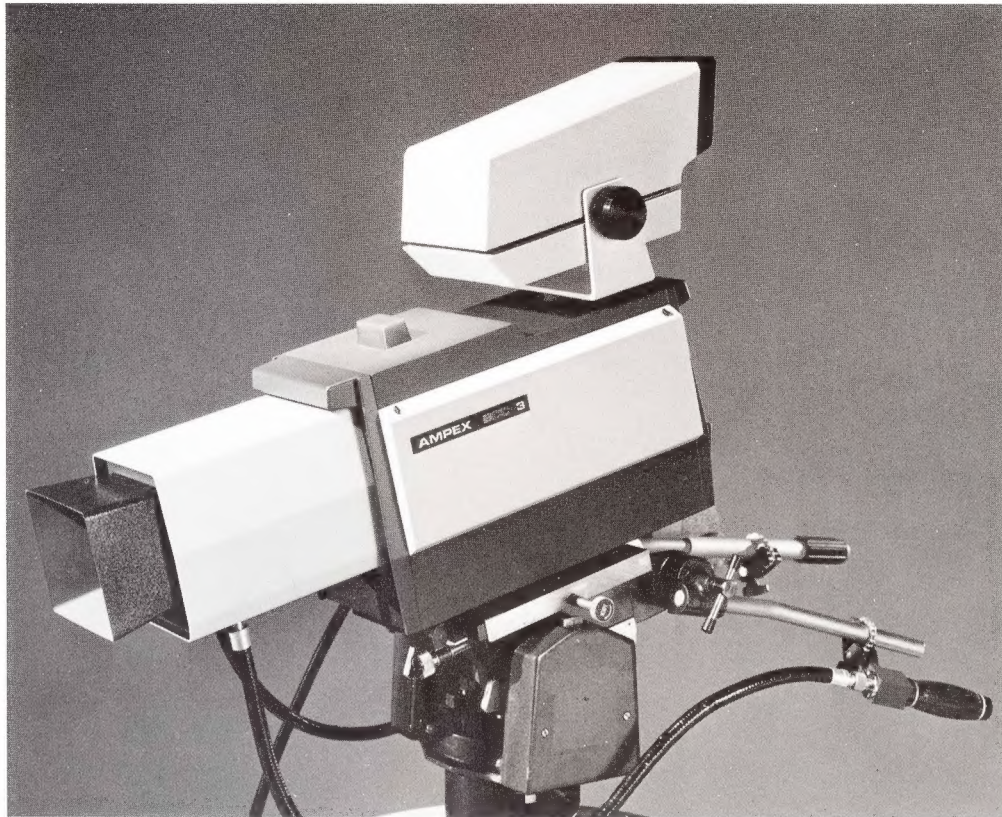
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**BCC-3  
COLOR  
TELEVISION  
CAMERA**



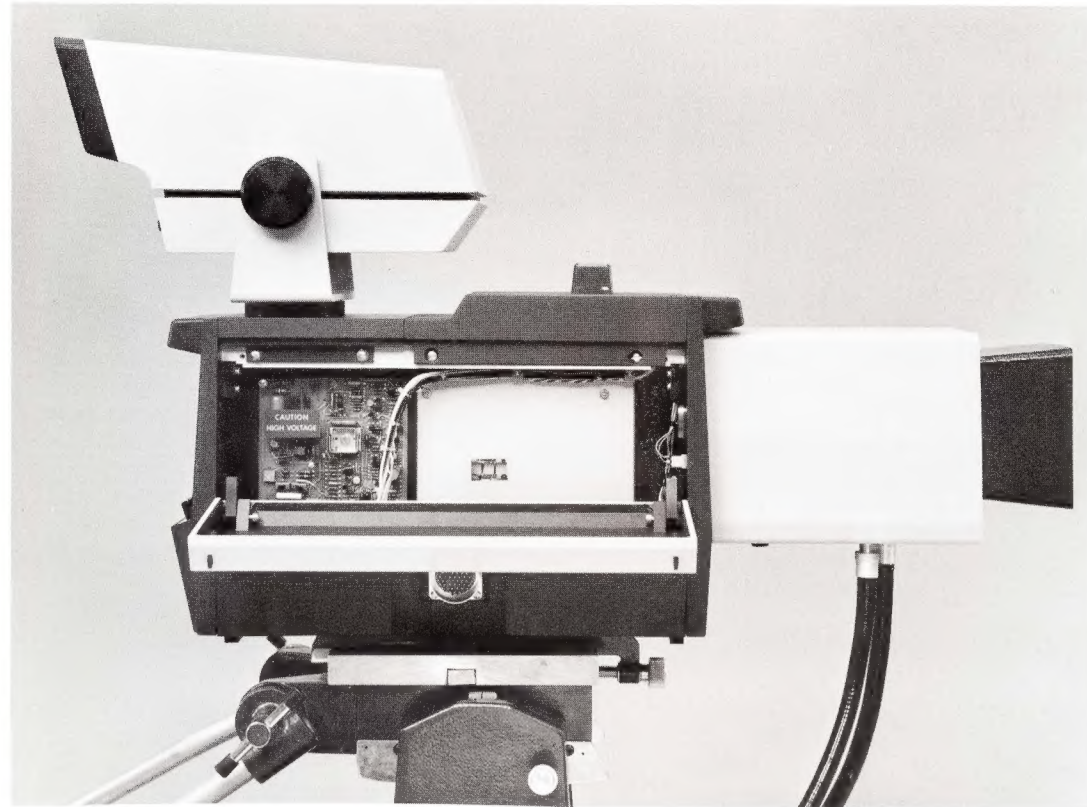


## **BCC-3 COLOR TELEVISION CAMERA**

**A truly superior medium-priced broadcast camera**

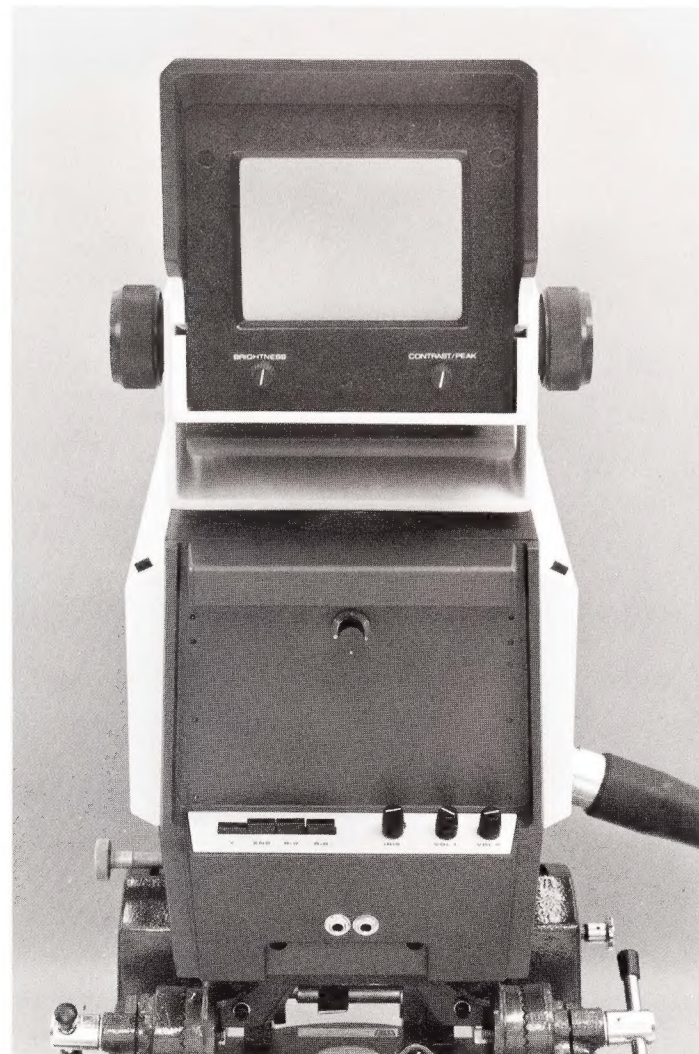
- **Excellent geometry and registration**
- **Excellent sensitivity (15 fc) and S/N (50 dB)**
- **Rugged, compact, lightweight (70 lb/31.75 kg)**
- **Convenient maintenance and setup**
- **Variable masking for precise camera matching**
- **Highly stable**





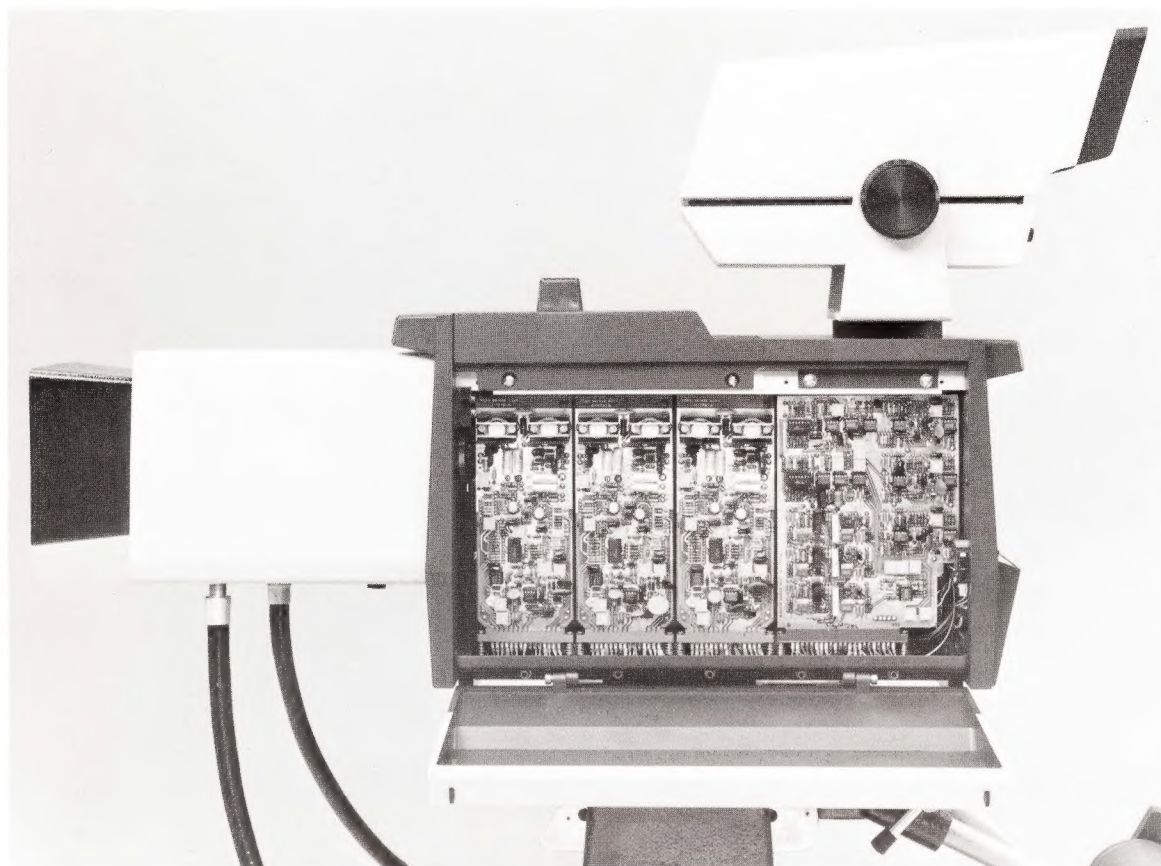
## **CAMERA HEAD**

- **1" Plumbicon\* tubes, extended red**
- **Unique Start Linearity gives best possible sweep accuracy**
- **Stable, one-piece optical bench**
- **Unique optical system gives reduced lag**
- **Dust-, light-, and moisture-tight optical compartment**
- **Six-position filter wheel, operable from rear**
- **Rugged, cast aluminum case**



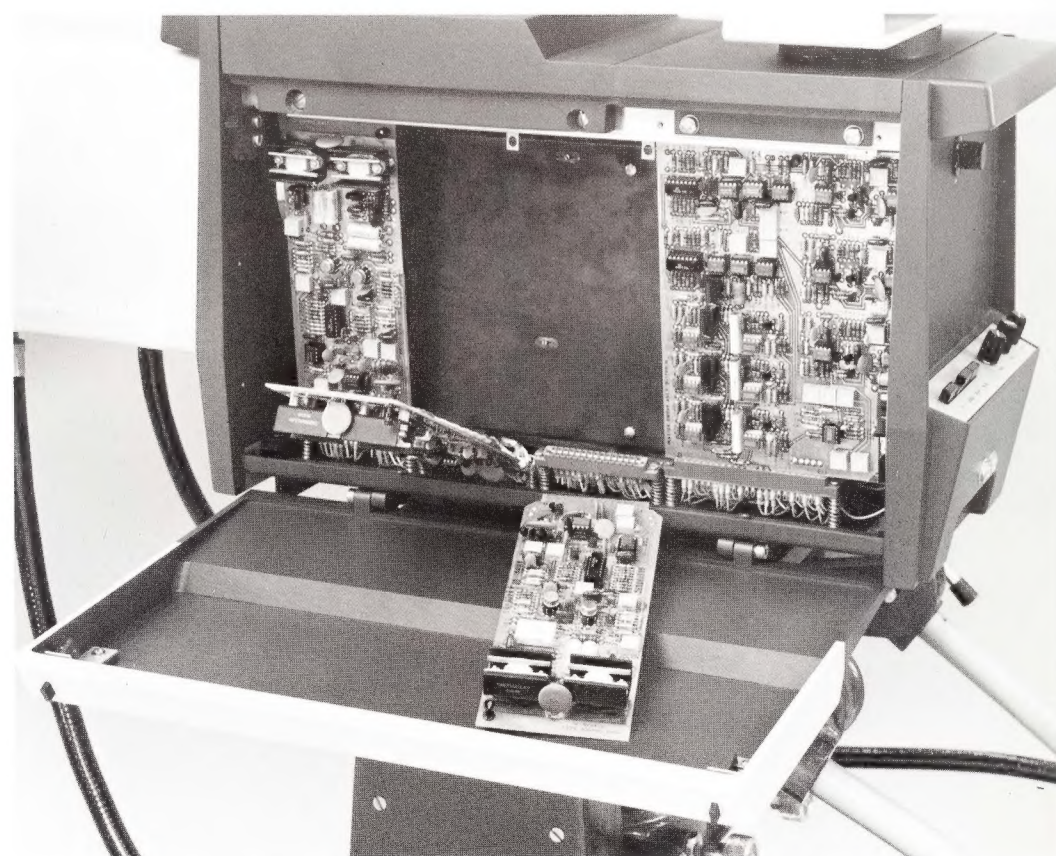
\*T.M. N.V. Philips



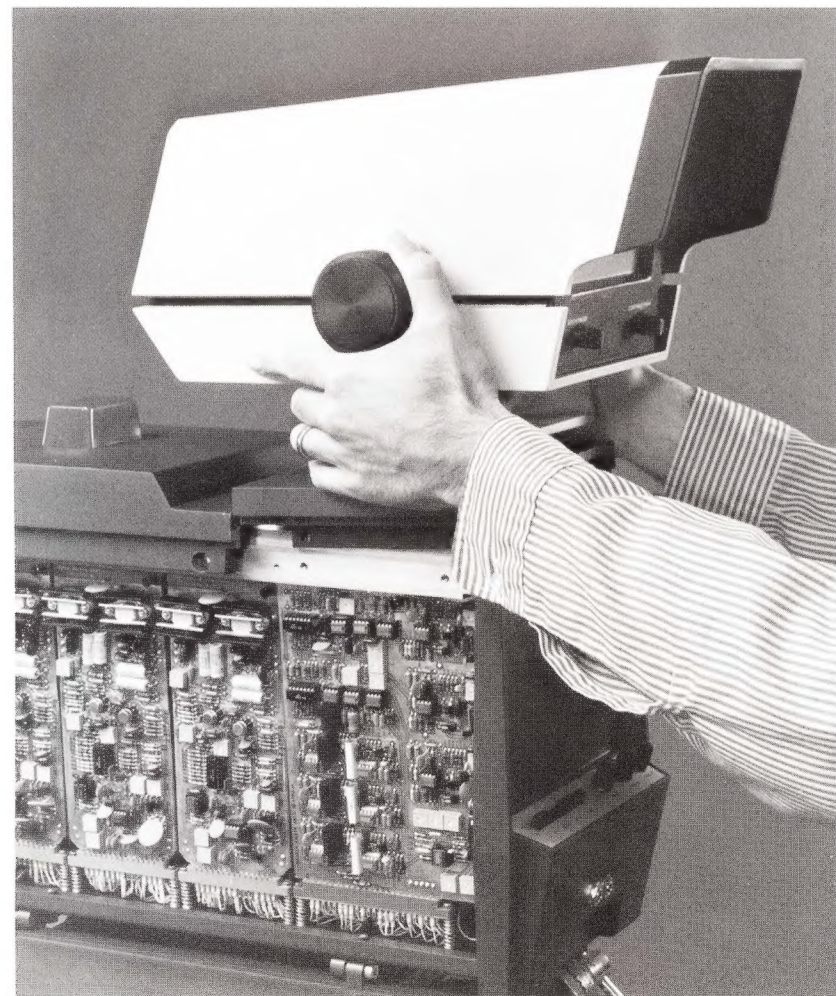
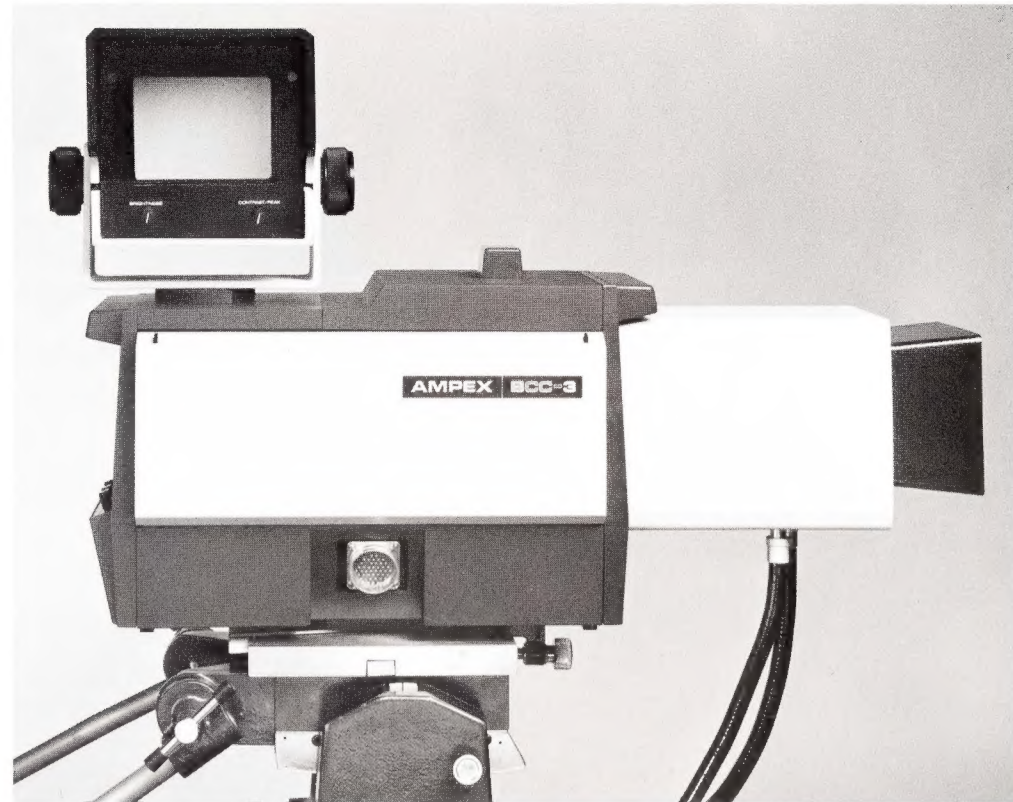


## **CAMERA HEAD**

- **Printed circuit yokes**
- **RGB circuitry**
- **Built-in iris servo**
- **Video level indicator**
- **2- or 4-wire intercom system**
- **Operates at 100-250 V, 50/60 Hz**
- **600-line limiting resolution**
- **Tally light switchable on/off**







## **VIEWFINDER**

- **Tilttable, rotatable**
- **Peaking, brightness, and contrast controls**
- **Return viewfinder feed**
- **dc restoration**
- **Solid state**
- **Arc-protected**
- **Easily removeable with two screws**





## **LENS**

- **Variety of lens options**
- **Quick-disconnect mount for convenient lens change**







## **CCU**

- **Compact, modular design, fits in console or rack**
- **Picture and waveform monitors**
- **Joystick remote control available**
- **Pulse advance**





**Camera Control Unit**



**Local Control Unit**

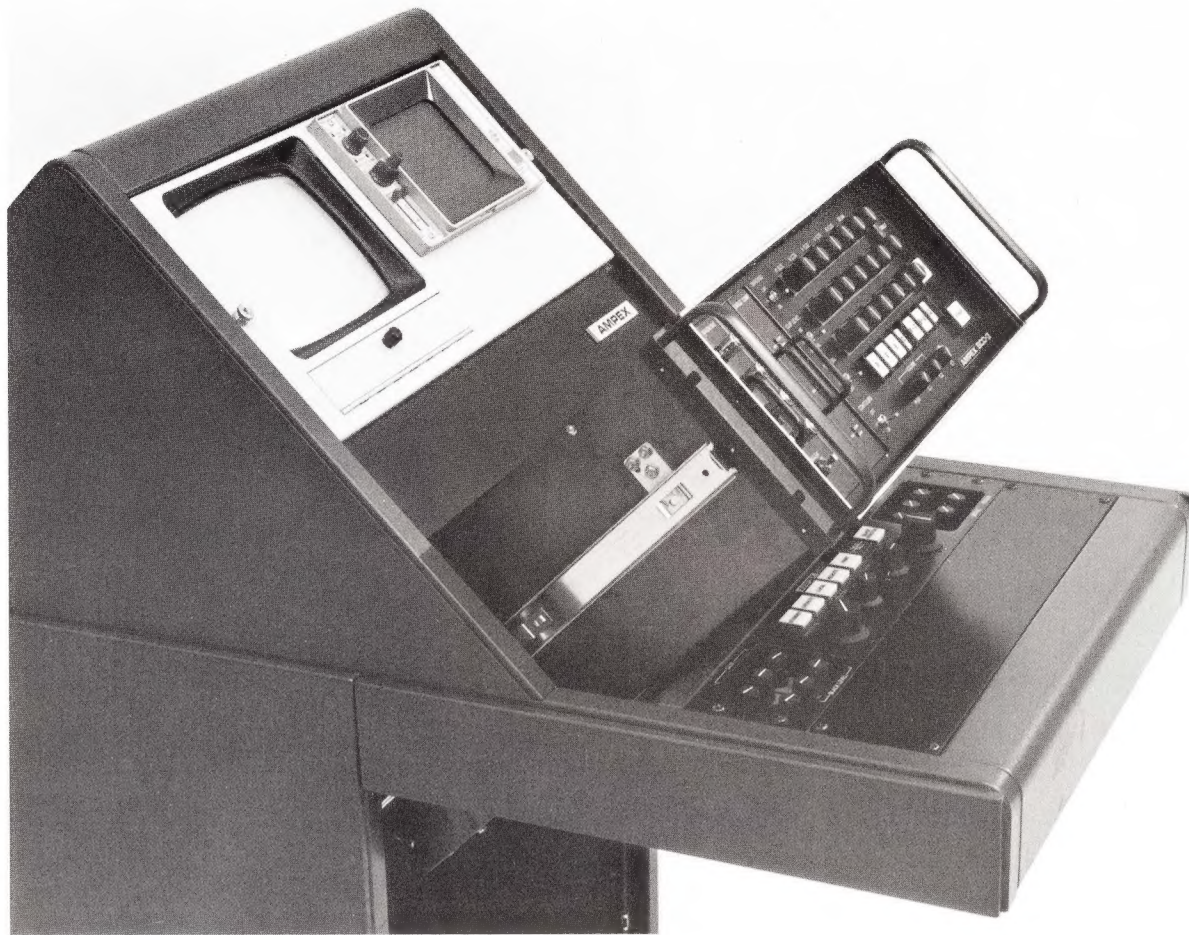


**Remote Control Unit**

## CCU

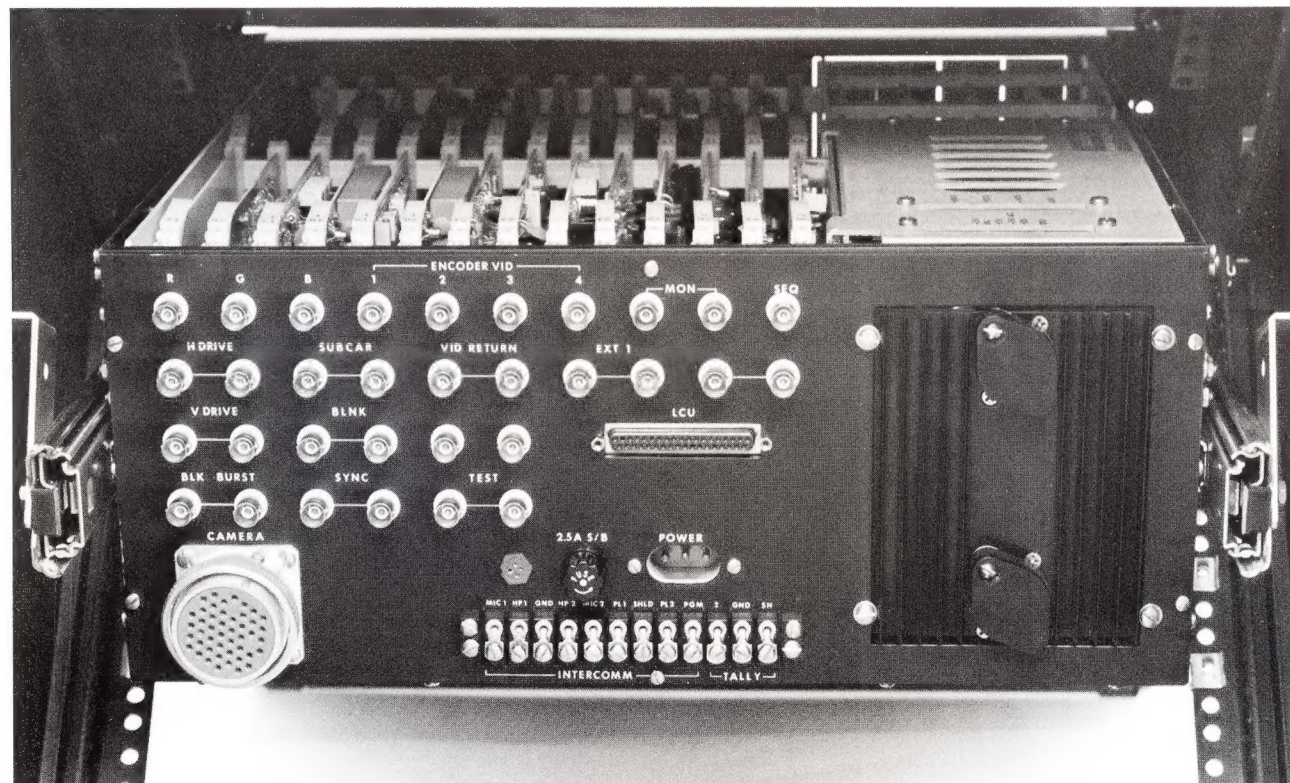
- All operational controls on front of CCU and LCU
- 2-line vertical and horizontal enhancer with coring and combing
- Unique luminance black stretch control gives high contrast picture control capability
- Optional interface backpack couples BCC-2 camera head to BCC-3 CCU
- Shading correction





## **CCU**

- **Plug-in PWAs**
- **Maintenance controls conveniently mounted on front edges of PWAs**
- **Square wave test signal**
- **Color bar generator**
- **Field-maintainable cable**







## **BASIC SYSTEM**

- **Camera head**
- **Viewfinder**
- **Camera control unit**
- **Local control unit**
- **Intercom amplifier**
- **100-foot cable**
- **Manual**

## **OPTIONAL ACCESSORIES**

- **Enhancer**
- **Encoder**
- **Pulse advance/gen lock**
- **Custom-length cables**
- **Remote control unit**
- **Lenses and lens accessories**
- **Tripods and dollies**
- **Pan/tilt heads**
- **Picture and waveform monitors**
- **Interface backpack for BCC-2**
- **Plumbicon tubes**



For additional information, contact the Ampex sales office listed below:

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